BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Name of Work: Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Civil Aim Consultants & Engineers

(Buildings Geo-Test & Highway Materials Testing Laboratory)

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No.01, Satvika Nilaya,Opp.Widia Poorna Prajna School,Ramaiah Layout Nagasandra Bengaluru -560073.

QC ABSTRACT

Nameof Work: Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:3:6	28.38 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	61.98 Cum	5	5	Concrete Cube Compressive Strength	-
3	Steel	4.20 Tonne	1	1	-	-
4	M15	6.92 Cum	2	2	Concrete Core Compressive Strength	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 08.09.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE		August - 2021
DATE OF TESTING		06.09.2021 to 08.09.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part 5)	120 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part 5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Fineness (by dry Sieving on IS 90 micron Sieve)	IS-4031 (Part 1)	2.20m	Shall not be more than 10mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

⇒ The Results of the Materials tested meets the Standards and hence can be used for the work.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date : 08.09.2021

TEST REPORT FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample Type/Size: : Sand

Date of test: : 06.09.2021 to 08.09.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Specific Gravity	2.66%	–
2	Silt Content	0.69%	Not More than 8%
2	Bulking of Sand	17.98%	–

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Date : 08.09.2021

Job No.: CACE/BBMP/SCT/W.No.10/2021-22

TEST REPORT COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample Type/Size: : 20mm Aggregates

Date of test: : 06.09.2021 to 08.09.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Crushing Value (%)	27.62%	Max 45%
2	Specific Gravity	2.67%	–
3	Water Absorption	0.45%	–
4	Combined Flakiness & Elongation Index	26.15%	–

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Sumukha. NK
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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date : 08.09.2021

TEST REPORT COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample Type/Size: : 40mm Aggregates

Date of test: : 06.09.2021 to 08.09.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Crushing Value (%)	26.48%	Max 45%
2	Specific Gravity	2.68%	–
3	Water Absorption	0.51%	–
4	Combined Flakiness & Elongation Index	25.12%	–

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Date : 08.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of Work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Date of Testing : 08.09.2021

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	86	8.60	13.50	86.5	40-100
300 Micron	268	26.80	40.30	59.7	5-70
150 Micron	488	48.80	89.10	10.9	0-15

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Date : 08.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T), Contractor, Bangalore.**

Name of Work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Date of Testing : 08.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II	Remarks
10	0	0	0	100	100	**The Sample Confirms to Grading Zone-II**
4.75	79	7.90	7.90	92.1	90-100	
2.36	132	13.20	21.10	78.9	75-100	
1.18	189	18.90	40.00	60.0	55-90	
600 Micron	165	16.50	56.50	43.5	35-59	
300 Micron	220	22.00	78.50	21.5	8-30	
150 Micron	162	16.20	94.70	5.3	0-10	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Sumukha N K
AE W10

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TEST REPORT ON COARSE AGGREGATES

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Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T), Contractor, Bangalo**

Name of Work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Date of Testing : 08.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1965	39.3	91.8	8.2	0-10

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Suretha .N.K
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Client : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T), Contractor, Bangalore.**

Name of Work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Date of Testing : 08.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	179	1.19	1.19	98.81	95-100
20	8320	55.47	56.66	43.34	30-70
10	3265	21.77	78.43	21.57	10-35
4.75	2818	18.79	97.21	2.79	0-5

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Job No: CACE/BBMP/SCT/W.No.10/2021-22 Date : 09.09.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of Work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Steel Dia/Length : 10mm,12mm " Fe500 TMT Bars

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 09.09.2021

		For 10mm		For 12mm	
S.No	**Details**	**Test Reaults**	**Min Req. as per IS 1786-2008**	**Test Results**	**Min Req. as per IS 1786-2008**
1	Observed diameter of bar	10.00mm	10.00mm	12.0mm	12.0mm
2	Observed Wt/m Lemgth Kg/m	0.621	0.567	0.892	0.834
3	Proof Stress / Yield Stress, fy, N/mm^2	546	500.0	560.0	500.0
4	Bend / Re bend Test	Ok	-	Ok	-
5	Percentage of Elongation, %	16.50	12.00	17.00	12.00
6	Ultimate Tensile strength N/mm2	635	545	642	545

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 27.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP,

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	20.09.2021	27.09.2021	8.156	332.3	14.77	
2	20.09.2021	27.09.2021	8.169	346.5	15.40	15.33
3	20.09.2021	27.09.2021	8.181	355.8	15.81	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 18.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as o1 : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	20.09.2021	18.10.2021	8.198	502.2	22.32	
2	20.09.2021	18.10.2021	8.150	519.3	23.08	22.52
3	20.09.2021	18.10.2021	8.132	498.6	22.16	

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 27.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	20.09.2021	27.09.2021	8.166	339.2	15.08	
2	20.09.2021	27.09.2021	8.154	356.3	15.84	15.63
3	20.09.2021	27.09.2021	8.149	359.2	15.96	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Suretha. N.A
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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 18.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	20.09.2021	18.10.2021	8.184	502.2	22.32	22.38
2	20.09.2021	18.10.2021	8.169	519.6	23.09	
3	20.09.2021	18.10.2021	8.157	488.9	21.73	

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.
4. The Results of the Materials tested meets the Standards and hence can be used for the work.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Sumithra. N.R
AE W10

AEE (VRP) SD

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 29.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP,

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	22.09.2021	29.09.2021	8.184	332.3	14.77	15.28
2	22.09.2021	29.09.2021	8.169	346.5	15.40	
3	22.09.2021	29.09.2021	8.152	352.8	15.68	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Sumukha . N L
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Date: 20.10.2021

Job No.: CACE/BBMP/SCT/W.No.10/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	22.09.2021	20.10.2021	8.189	512.2	22.76	22.32
2	22.09.2021	20.10.2021	8.165	505.8	22.48	
3	22.09.2021	20.10.2021	8.146	488.9	21.73	

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 29.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	22.09.2021	29.09.2021	8.188	346.8	15.41	
2	22.09.2021	29.09.2021	8.169	336.3	14.95	15.44
3	22.09.2021	29.09.2021	8.154	359.4	15.97	

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Smitha .N.K
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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 20.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	22.09.2021	20.10.2021	8.180	502.2	22.32	22.04
2	22.09.2021	20.10.2021	8.162	496.5	22.07	
3	22.09.2021	20.10.2021	8.138	488.9	21.73	

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 29.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	22.09.2021	29.09.2021	8.154	336.3	14.95	
2	22.09.2021	29.09.2021	8.133	346.5	15.40	15.39
3	22.09.2021	29.09.2021	8.182	355.8	15.81	

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Scuttle . N L
AE Lab

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 20.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	22.09.2021	20.10.2021	8.188	502.2	22.32	
2	22.09.2021	20.10.2021	8.165	516.5	22.96	22.33
3	22.09.2021	20.10.2021	8.172	488.9	21.73	

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Suvetha. N R
AE W10

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 02.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	25.09.2021	02.10.2021	8.138	265.2	11.79	12.25
2	25.09.2021	02.10.2021	8.146	279.5	12.42	
3	25.09.2021	02.10.2021	8.152	282.4	12.55	

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Suresh. N L
AE W10

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 23.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	25.09.2021	23.10.2021	8.169	389.6	17.32	
2	25.09.2021	23.10.2021	8.177	392.3	17.44	17.16
3	25.09.2021	23.10.2021	8.182	376.5	16.73	

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Sumukha. N R
AG No

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Authorised Signatory

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 02.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	25.09.2021	02.10.2021	8.136	262.3	11.66	12.15
2	25.09.2021	02.10.2021	8.154	275.2	12.23	
3	25.09.2021	02.10.2021	8.146	282.4	12.55	

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Sweetha .N.L
AE BIO

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 23.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at Muneshwara Block Subbanna Beedi in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division , BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	25.09.2021	23.10.2021	8.146	378.5	16.82	16.75
2	25.09.2021	23.10.2021	8.168	389.6	17.32	
3	25.09.2021	23.10.2021	8.188	362.5	16.11	

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For CIVIL AIM CONSULTANTS & ENGINEERS

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